



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Marek Kwiatkowski Art Unit : 1646  
Serial No. : 10/071,585 Examiner : Unknown  
Filed : February 8, 2002  
Title : METHODS FOR SEPARATING OLIGONUCLEOTIDES

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 9/20/02

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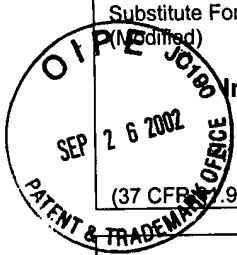
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11989-008001	Application No. 10/071,585
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Marek Kwiatkowski	
		Filing Date February 8, 2002	Group Art Unit 1646

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,319,079	06/07/94	Reddy et al.			
	AB	5,801,237	09/01/98	Johansson			
	AC	5,892,007	04/06/99	Ramage			
	AD	5,977,400	11/02/99	DeWitt et al.			
	AE	6,309,836	10/30/01	Kwiatkowski			

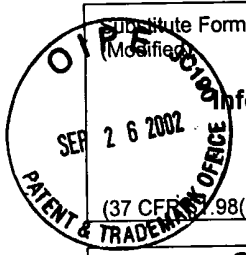
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AF	WO 92/09615	06/11/92	PCT				
	AG	WO 98/08857	03/05/98	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AH	Aldrian-Herrada et al., "Solid-phase Synthesis of Peptide Nucleic Acid (PNA) Monomers and Their Oligomerization Using Disulphide Anchoring Linkers," <i>J. Peptide Sci.</i> , 1998, 4:266-281
	AI	Bannwarth and Wippler, "A New Combined Purification/Phosphorylation Procedure for Oligodeoxynucleotides," <i>Helvetica Chimica Acta</i> , 1990, 73:1139-1147
	AJ	Bergseid et al., "Small Molecule-Based Chemical Affinity System for the Purification of Proteins," <i>BioTechniques</i> , 2000, 29(5):1126-1133
	AK	Connolly, "Solid Phase 5'-Phosphorylation of Oligonucleotides," <i>Tetrahedron Lett.</i> , 1987, 28(4):463-466
	AL	Ducharme and Harrison, "A Versatile Approach to the Synthesis of Dinucleotide Analogs Containing Neutral 5'-Thioformacetal Internucleoside Linkages," <i>Tetrahedron Lett.</i> , 1995, 36(37):6643-6646
	AM	Greenberg, "Photochemical Cleavage of Oligonucleotides From Solid Phase Supports," <i>Tetrahedron Lett.</i> , 1993, 34:251-254
	AN	Horn and Urdea, "Solid supported hydrolysis of apurinic sites in synthetic oligonucleotides for rapid and efficient purification on reverse-phase cartridges," <i>Nucleic Acids Res.</i> , 1988, 16(24):11559-11571
	AO	Horn et al., "An improved divergent synthesis of comb-type branched oligodeoxyribonucleotides (bDNA) containing multiple secondary sequences," <i>Nucleic Acids Res.</i> , 1997, 25(23):4835-4841
	AP	Horn and Urdea, "A Simple Solid-Phase Based Purification Procedure for Oligodeoxynucleotides," Chiron Diagnostics, 2 pgs.
	AQ	Kwiatkowski et al., "Synthesis of full-length oligonucleotides: cleavage of apurinic molecules on a novel support," <i>Nucleic Acids Res.</i> , 1996, 24(23):4632-4638

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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(37 CFR 1.98(b))		Filing Date February 8, 2002	Group Art Unit 1646

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AR	Kwiatkowski et al., "Inversion of <i>in situ</i> synthesized oligonucleotides: improved reagents for hybridization and primer extension in DNA microarrays," <u>Nucleic Acids Res.</u> , 1999, 27(24):4710-4714
	AS	Markiewicz et al., "Tetra- <i>t</i> -butoxydisiloxane-1,3-diyl, a new type of bifunctional silyl protective group," <u>Nucleic Acids Res.</u> , Symposium Series No. 18, 1987, pp. 149-152
	AT	Morag et al., "Immobilized Nitro-avidin and Nitro-streptavidin as Reusable Affinity Matrices for Application in Avidin-Biotin Technology," <u>Analyt. Biochem.</u> , 1996, 243:257-263
	AU	Nilsson et al., "Padlock probes reveal single-nucleotide differences, parent of origin and <i>in situ</i> distribution of centromeric sequences in human chromosomes 13 and 21," <u>Nature Genetics</u> , 1997, 16:252-255
	AV	Schmidt et al., "The 4-Decyloxytrityl Group as an Aid in the Affinity Chromatography of Synthetic Oligonucleotides," <u>Nucleosides &amp; Nucleotides</u> , 1988, 7(5 & 6):795-799
	AW	Sears and Wong, "Toward Automated Synthesis of Oligosaccharides and Glycoproteins," <u>Science</u> , 2001, 291:2344-2350
	AX	Sinha et al., "Polymer support oligonucleotide synthesis XVIII <sup>1,2</sup> : use of $\beta$ -cyanoethyl-N,N-dialkylamino-N-morpholino phosphoramidite of deoxynucleosides for the synthesis of DNA fragments simplifying deprotection and isolation of the final product," <u>Nucleic Acids Res.</u> , 1984, 12(11):4539-4557
	AY	Veeneman et al., "An Efficient Approach to the Synthesis of Thymidine Derivatives Containing Phosphate-Isosteric Methylene Acetal Linkages," <u>Tetrahedron</u> , 1991, 47(8):1547-1562

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